CLAIMS

- 1. (Amended) An anisotropic conductive film, wherein an electrically insulative porous film made of synthetic resin is used as a base film, and conductive metal plating particles are formed continuously adhering to resinous parts of porous structure in the wall surfaces of through holes piercing through from a first surface to a second surface, whereby conductive parts capable of being provided with conductiveness in the film thickness direction are formed independently at plural positions of the base film, the conductive parts maintaining the porous structure of the porous film.
- 2. (Deleted)

5

- 3. (Deleted)
- 4. (Deleted)
- 5. (Amended) An anisotropic conductive film according to claims 1, wherein the porous film is a porous polytetrafluoroethylene film.
 - 6. (Amended) An anisotropic conductive film according to claim 5, wherein the resinous parts of porous structure are fibrils and nodes, each consisting of polytetrafluoroethylene.
- 20 7. (Deleted)
 - 8. (Deleted)
 - 9. (Amended) A method of making an anisotropic conductive film, wherein conductive metal particles formed by plating are adhered continuously to

resinous parts having porous structure in the wall surfaces of through holes piercing from a first surface to a second surface at plural positions in a base film made of an electrically insulative porous film consisting of synthetic resin, whereby conductive parts capable of being afforded with conductiveness respectively in the film thickness direction are provided independently of each other, the conductive parts maintaining the porous structure of the porous film.

10. (Deleted)

5

15

- 11. (Amended) A manufacturing method as set forth in claim 9, wherein the
 through-holes piercing from a first surface to a second surface are formed
 at plural positions of the base film by irradiating synchrotron radiation
 rays or laser beams having a wavelength of 250 nm or less.
 - 12. (Amended) A manufacturing method as set forth in claim 9, wherein the through-holes piercing from a first surface to a second surface are formed by ultrasonic wave processing at plural positions of the base film.
 - 13. (Deleted)
 - 14. (Deleted)
 - 15. (Amended) A manufacturing method as set forth in claim 11 or 12, wherein conductive metal is adhered by electroless plating through chemical reduction reaction, after catalytic particles for facilitating the chemical reduction reaction are adhered, to the resinous parts of porous structure at the wall surfaces of through-holes.
 - 16. (Amended) A manufacturing method as set forth in any one of claims 9,

- 11, 12, and 15, wherein the porous film is a porous polytetrafluoroethylene film.
- 17. (Amended) A method of making an anisotropic conductive film, wherein conductive parts capable of being afforded with conductiveness respectively in the film thickness direction are provided independently of each other by adhering conductive metal particles of electroless plating continuously to resinous parts having porous structure in the wall surfaces of through holes piercing from a first surface to a second surface at plural position in a base film consisting of a porous polytetrafluoroethylene film, and wherein the conductive parts maintain the porous structure of the porous film,

the method comprising the steps of:

5

10

15

- (1) forming a three layer laminated body by fusion-bonding polytetrafluoroethylene films (B) and (C), which are to be mask layers, to both surfaces of a base film consisting of a porous polytetrafluoroethylene film (A);
- (2) forming through-holes arranged in a pre-determined pattern in the laminated body by irradiating the surface of one of the mask layers with synchrotron radiation rays or laser beams having a wavelength of 250 nm or less through a light shielding sheet having a plurality of optically transparent parts provided independently of each other in the pre-determined pattern;
 - (3) adhering catalytic particles for facilitating chemical reduction

reaction to resinous parts of porous structure existing in the whole surface, including the wall surfaces of the through-holes, of the laminated body;

- (4) peeling off the mask layers from both surfaces of the base film; and
- (5) adhering conductive metal particles by electroless plating continuously to resinous parts having porous structure in the wall surfaces of the through-holes in a manner such that the conductive parts maintain the porous structure of the porous films.
- 18. (Amended)A method of making an anisotropic conductive film, wherein conductive parts capable of being afforded with conductiveness respectively in the film thickness direction are provided independently of each other by adhering conductive metal particles of electroless plating to resinous parts having porous structure in the wall surfaces of through holes piercing from a first surface to a second surface at plural positions in a base film consisting of a porous polytetrafluoroethylene film, and wherein the conductive parts maintain the porous structure of the porous film,

the method comprising the steps of:

5

10

15

- (I) forming a three layer laminated body by fusion-bonding polytetrafluoroethylene films (B) and (C) as mask layers to both surfaces of a base film consisting of a porous polytetrafluoroethylene film (A);
 - (II) forming through holes by using an ultrasonic head having at least

one rod at the tip thereof and pressing the tip of the rod so as to apply ultrasonic wave energy to the surface of the laminated body, the through-holes being arranged in a pattern in the laminated body;

- (III) adhering catalytic particles for facilitating chemical reduction reaction to resinous parts of porous structure existing in the whole surface, including the wall surfaces of the through-holes, of the laminated body;
 - (IV) peeling off the mask layers from both surfaces of the base film; and (V) adhering conductive metal particles by electroless plating continuously to resinous parts having porous structure on the wall surfaces of the through-holes in a manner such that the conductive parts maintain the porous structure of the porous film.
 - 19. (Amended)A method of making an anisotropic conductive film, wherein conductive parts capable of being afforded with conductiveness respectively in the film thickness direction are provided independently of each other in a piercing manner from a first surface to a second surface by adhering conductive metal to resinous parts having porous structure at plural positions in a base film consisting of a porous polytetrafluoroethylene film,

the method comprising the steps of:

5

10

15

- (i) forming a three layer laminated body by fusion-bonding polytetrafluoroethylene films (B) and (C) as mask layers to both surfaces of a base film consisting of a porous polytetrafluoroethylene film (A);
 - (ii) infiltrating liquid into porous parts of the laminated body and

freezing the liquid;

5

- (iii) forming through-holes in a pattern in the laminated body by using an ultrasonic head having at least one rod at the tip thereof and pressing the surface of the laminated body with the tip of the rod so as to apply ultrasonic wave energy thereto;
- (iv) returning the freezing in the porous parts to liquid by increasing the temperature of the laminated body and removing the liquid;
- (v) adhering catalytic particles for facilitating chemical reduction reaction to porous parts existing in the whole surface, including the wall surfaces of the through-holes, of the laminated body;
 - (vi) peeling off the mask layers from both surfaces of the base film; and (vii) adhering conductive metal by electroless plating to resinous parts having porous structure on the wall surfaces of the through-holes.
 - 20. A manufacturing method as set forth in claim 19, wherein water or organic solvent is used as the liquid to be infiltrated into the porous parts in the step (ii) above.
- 21. (Amended)A manufacturing method as set forth in any one of claims 9,
 15. 11,12, and 15 to 20, wherein for adhering conductivity metal to the resinous parts of porous structure, conductive metal particles with a particle diameter of 0.001 · 5 μm are adhered at adhesion quantity of 0.001 · 4.0 g/ml(resin).